



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	CF6-80C2B8F	BYPASS RATIO:	5.1
UNIQUE ID NUMBER:	8GE101	PRESSURE RATIO (π_{00}):	31.4
COMBUSTOR:	1862M39		
ENGINE TYPE:	TF	RATED THRUST (F_{00}) (kN):	267.0

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	1.7	22.7	48.4	6.4
AS % OF ORIGINAL LIMIT	8.8	19.2	47.1	35.5
AS % OF CAEP/2 LIMIT (NO _x)			58.8	
AS % OF CAEP/4 LIMIT (NO _x)			69.3	
AS % OF CAEP/6 LIMIT (NO _x)			78.4	
AS % OF CAEP/8 LIMIT (NO _x)			91.5	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.583	0.04	0.03	26.85	5.8
CLIMB OUT	85	2.2	2.106	0.04	0.02	20.84	4.2
APPROACH	30	4.0	0.685	0.09	1.69	12.42	0.0
IDLE	7	26.0	0.205	1.14	16.69	4.59	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			870	394	5615	12213	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				7	7	7	7
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				1.5	21.0	45.7	5.8
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION	0	(kW)	AT	All	POWER SETTINGS
STAGE BLEED	0	(% CORE FLOW)	AT	All	POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97-98
TEMPERATURE (K)	279.8-293
ABS HUMIDITY (kg/kg)	0.00434-0.00743

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: PTO Site 3B Peebles
 TEST DATES: 13/01/1996-16/03/1996

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

REMARKS

1. Ref GE Report R98AEB212
2. Engine S/N 704234, 704233 and 704378
3. 1862M39 Combustor
4. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
5. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e)

Compliance with Fuel Venting requirements: x ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)